Improvements to roads & drain @ 4th cross, Vijayalakshmi Badavane

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.14/AP/CSR-7/884e/CEMENT/2015-16 Date: 04.07.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. A. Pradeep,** No.291, 2nd Cross, EWS, K.H.B Colony, 2nd stage, Basaveshwaranagara, Bangalore.
*NAME OF THE WORK	:	Improvements to roads & drain at 4th cross Vijayalakshmi Badavane in Ward No.14, Bagalagunte, BBMP, Bangalore.
*REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 02.07.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	02.07.2015
PERIOD OF TESTING	:	02.07.2015 to 04.07.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	31.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VISHWANATH. I.A.
Chief Executive Officer

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Improvements to roads & drain at 4th cross, Vijayalakshmi Badavane

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T-2377

Job No.: CTCE/BBMP/W.No.14/AP/CSR-7/884e/SAND-Gradation/2015-16 : 04.07.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Pradeep,** No.291, 2nd Cross, EWS, K.H.B Colony, 2nd stage, Basaveshwaranagara, Bangalore.
* Name of Work	: Improvements to roads & drain at 4th cross Vijayalakshmi Badavane in Ward No.14, Bagalagunte, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 02.07.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 02.07.2015
Date of Testing	: 04.07.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.00	90-100	90-100	90-100	95-100
2.36	74.80	60-95	75-100	85-100	95-100
1.18	49.80	30-70	55-90	75-100	90-100
600 Micron	25.80	15-34	35-59	60-79	80-100
300 Micron	15.80	5-20	8-30	12-40	15-50
150 Micron	5.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Zone-I specific limits.

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Chief Executive Officer

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Job No.: CTCE/BBMP/W.No.14/AP/CSR-7/884e/AGG/GR/2015-16 : 04.07.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Pradeep,** No.291, 2nd Cross, EWS, K.H.B Colony, 2nd stage, Basaveshwaranagara, Bangalore.
* Name of Work	: Improvements to roads & drain at 4th cross Vijayalakshmi Badavane in Ward No.14, Bagalagunte, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 02.07.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 02.07.2015
Date of Testing	: 04.07.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.50	95-100	85-100
20	36.50	30-70	0-20
10	14.50	10-35	0-5
4.75	2.50	0-5	-

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* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Chief Executive Officer

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T-2377

Job No.: CTCE/BBMP/W.No.14/AP/CSR-7/884e/CC Solid Block/2015-16 : 07.07.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Pradeep,** No.291, 2nd Cross, EWS, K.H.B Colony, 2nd stage, Basaveshwaranagara, Bangalore.
* Name of the Work	: Improvements to roads & drain at 4th cross Vijayalakshmi Badavane in Ward No.14, Bagalagunte, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 02.07.2015
Sample Received on	: 02.07.2015
Date of Testing	: 07.07.2015
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	35.23	256.9	3.21	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	36.20	260.4	3.26	
3	Block 3	35.21	259.3	3.24	
4	Block 4	34.25	258.3	3.23	
5	Block 5	34.63	260.4	3.26	
6	Block 6	36.25	261.5	3.27	
7	Block 7	35.15	262.8	3.29	
8	Block 8	36.20	262.5	3.28	

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VISHWANATH. I.A.
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T-2377

Job No.: CTCE/BBMP/W.No.14/AP/CSR-7/884e/CUBE/2015-16

17.08.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Pradeep,** No.291, 2nd Cross, EWS, K.H.B Colony, 2nd stage, Basaveshwaranagara, Bangalore.
* Name of the work	: Improvements to roads & drain at 4th cross Vijayalakshmi Badavane in Ward No.14, Bagalagunte, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 02.07.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day
Sample Received on	: 20.07.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.07.2015	17.08.2015	8.095	345.6	15.36
2	20.07.2015	17.08.2015	8.174	365.4	16.24
3	20.07.2015	17.08.2015	8.236	369.8	16.44

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Chief Executive Officer

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Job No.: CTCE/BBMP/W.No.14/AP/SDBC/Bit/2015-16

21.08.2015

BITUMEN CONTENT DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

AS per IRC:SP:-1984

CUSTOMER	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	**Mr. A. Pradeep,** No.291, 2nd Cross, EWS, K.H.B Colony, 2nd stage, Basaveshwaranagara, Bangalore.
NAME OF THE WORK	Improvements to roads & drain at 4th cross Vijayalakshmi Badavane in Ward No.14, Bagalagunte, BBMP, Bangalore.
REFERENCE	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 02.07.2015
SAMPLE I/D	4th cross Vijayalakshmi Badavane Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
DATE OF TESTING	21.08.2015

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	475.5	474.5
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	24.5	25.50
7. Bitumen content in %	4.90	5.10
8. Average	**5.00**	

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